

# **Reducing Operating Costs for Solid Fuel Fired Stokers**

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## **Abstract**

As the power-producing environment becomes more deregulated, companies are trying even harder to make greater use of less expensive fuels to lower operating costs. Consequently, stoker operators are taking advantage of cost - effective fuels such as coals of varying size, moisture and Btu content. These fuels, however, are often difficult to consistently and evenly distribute over the stoker bed. Detroit's® Underthrow Fuel Distributor is the ideal choice for spreader stokers burning coal containing a high quantity of fines and moisture.

The underthrow design of the rotor coupled with pneumatic assistance is a revolutionary change to fuel distributor products. The Underthrow distributor discharges the fuel on the underside of the rotor, enabling the blades to contact the coal for a longer period of time than other distributors. This design feature in conjunction with the pneumatic distributor plate, facilitates a more horizontal trajectory of fuel, therefore distributing the fine particles more consistently onto the bed area.

## **Features and Benefits**

- Ideal for distributing fuels inconsistent in size and moisture content
- Distributes fuels more consistently and evenly than other feeders
- Ideal for distributing fines and other inconsistent material at longer distances
- Improved distribution of fuel promotes less suspension firing resulting in lower loss of ignition
- Cost effective operations as the innovative design makes the Underthrow ideal for lower quality, less expensive fuel